

9/03/13

Review Practice Quiz

Target review sheets
- must do 2

Quiz on 1.1-1.3 tomorrow!!!

Practice Quiz – Work as a team

ANSWER KEY

Write an algebraic expression for each word phrase.

1. x increased by 12

$$x+12$$

2. The product of x and 21

$$21x$$

$$x \cdot 21$$

$$21 \cdot x$$

3. Four less than five times a number z

$$5z-4$$

Write a word phrase for each algebraic expression.

4. $5-c$

5 LESS C

5. $3x+10$

10 MORE THAN 3 TIMES A NUMBER

6. x^2

X SQUARED

7. What is the saying to remember the **order of operations**, and what does it mean?

P () I I - √

EXPONENTS

MULTIPLICATION

DIVISION

A

S

Use the order of operations to simplify:

8. $18 \div (4+2)$

$$18 \div 6 = 3$$

9. $(5 \cdot 5) \div (3+2)$

$$25 \div 5 = 5$$

10. $4^2 - (7+5)$

$$16 - 12 = 4$$

Evaluate each expression using the values given.

11. $x + y(y-2)$; use $x = 1$, and $y = 6$

$$1 + 6(6-2)$$

$$1 + 6(4) = 1 + 24 = 25$$

12. $a + b^3 - a$; use $a = 1$, and $b = 2$

$$1 + 2^3 - 1$$

$$1 + 8 - 1 = 8$$

$$a + b^3 - a$$

$$1 + 2^3 - 1$$

$$a=1$$

$$b=2$$

$$2^3 = 2 \cdot 2 \cdot 2 = 8$$

13. List out the first 10 perfect squares:

1, 4, 9, 16, 25, 36, 49, 64, 81, 100

$$\begin{array}{l} 1^2 = 1 \\ 2^2 = 4 \end{array} \quad \begin{array}{l} 3^2 = 9 \\ 4^2 = 16 \end{array}$$

Name the sets to which each of the following belong: Natural, Whole, Integer, Rational, or Irrational.

14. $\frac{9}{3} = 3$

NATURAL
WHOLE
INTEGER
RATIONAL

15. -3

INTEGER
RATIONAL

16. $\sqrt{15}$

IRRATIONAL

17. 0

WHOLE
INTEGER
RATIONAL

$$\sqrt{\frac{9}{16}} = \frac{3}{4}$$

$\frac{1}{3}$

17

